

## Aremco Ceramabond™ 890 High Temperature Ceramic Adhesive/Paste, Silicon Carbide Filled

Category : Ceramic , Carbide

### Material Notes:

Aremco's ceramic adhesives are easy to use, one- and two-component systems which air dry in 1-2 hrs and are ready for use following a 200 to 700 °F cure. These materials are mostly water-based and do not outgas after curing. They are also environmentally safe, non-flammable materials which contain no volatile organic compounds. General Features: High Thermal Conductivity Bonding: Ceramic to Ceramic, Ceramic to Metal Principal Use: Probes, Sensors

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Aremco-Ceramabond-890-High-Temperature-Ceramic-AdhesivePaste-Silicon-Carbide-Filled.php](http://www.lookpolymers.com/polymer_Aremco-Ceramabond-890-High-Temperature-Ceramic-AdhesivePaste-Silicon-Carbide-Filled.php)

| Physical Properties                      | Metric           | English                            | Comments |
|--|------------------|------------------------------------|----------|
| Density                                  | 1.70 - 1.75 g/cc | 0.0614 - 0.0632 lb/in <sup>3</sup> |          |
| Volatile Organic Compounds (VOC) Content | 0.000 g/l        | 0.000 g/l                          |          |
| Viscosity                                | 35000 - 55000 cP | 35000 - 55000 cP                   |          |

| Mechanical Properties | Metric | English    | Comments                          |
|-----------------------|--------|------------|-----------------------------------|
| Impact Test           | 54.2 J | 40.0 ft-lb | Torque Strength; curing at 1000°F |

| Thermal Properties               | Metric       | English        | Comments |
|----------------------------------|--------------|----------------|----------|
| CTE, linear                      | 4.32 μm/m-°C | 2.40 μin/in-°F |          |
| Maximum Service Temperature, Air | 1650 °C      | 3000 °F        |          |

| Electrical Properties | Metric     | English    | Comments |
|-----------------------|------------|------------|----------|
| Dielectric Strength   | 2.87 kV/mm | 73.0 kV/in |          |

| Processing Properties  | Metric               | English             | Comments                             |
|------------------------|----------------------|---------------------|--------------------------------------|
| Processing Temperature | 50.0 - 90.0 °C       | 122 - 194 °F        | Application Temp                     |
| Cure Time              | 120 min              | 2.00 hour           | Step 1, preceeded by <1 hour air set |
|                        | @Temperature 93.3 °C | @Temperature 200 °F |                                      |
|                        | 120 min              | 2.00 hour           | Step 2                               |
|                        | @Temperature 260 °C  | @Temperature 500 °F |                                      |
|                        | 120 min              | 2.00 hour           | Step 3                               |
|                        | @Temperature 371 °C  | @Temperature 700 °F |                                      |

| Processing Properties | Metric<br>@ 4.44 Month         | English<br>@ 40.0 Month        | Comments |
|-----------------------|--------------------------------|--------------------------------|----------|
| Shelf Life            | @Temperature 4.44 -<br>32.2 °C | @Temperature 40.0 -<br>90.0 °F |          |

| Descriptive Properties | Value     | Comments                          |
|------------------------|-----------|-----------------------------------|
| Acid Resistance        | Good      | after curing at 700°F for 2 hours |
| Alkali Resistance      | Good      | after curing at 700°F for 2 hours |
| Color                  | Blue-Gray |                                   |
| Moisture Resistance    | Good      | after curing at 700°F for 2 hours |
| Solvent                | Water     |                                   |
| Thinner                | 890-T     |                                   |

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